

WORKSHOP NOTICE WITH AGENDA, & CONFERENCE CALL
INFORMATION

**Public Workshop Notice: CPUC Workshop on the Distribution
Resources Plans (DRPs) Projects C, D, E of PG&E, SCE and SDG&E.
(R.14-08-013)**

Date and Time:	California Public Utilities Commission
June 28, 2016	505 Van Ness Avenue. CPUC. Auditorium
9:30 AM– 5:00 PM	San Francisco

Remote Access to the Workshop

Tuesday, June 28, 2016
9:30 am | Pacific Daylight Time (San Francisco, GMT-07:00)

[Join WebEx meeting](#)

<https://van.webex.com/van/j.php?MTID=mb371fe54eefd57ea2362922e2febb88d>

Meeting number: 747 819 623 (view only)

Meeting password: !Energy1

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Call-in: 866-830-4003

Participant passcode: 9869619

June 28-Workshop Agenda

The purpose of this workshop is to promote further discussion on the merits of the utilities' proposed DRP Project C (Demonstration of DER Locational Benefits), Project D (Demonstration of Distribution Operations at High Penetration of DERs), and Project E (Demonstration of DER Dispatch to Meet Reliability Needs) and alternate project proposals. The utilities will present their updated project plans which were filed on June 17, 2016.

Among the goals of the workshop are:

- To identify merits and deficiencies, if any, in the design of the proposed projects;
- To identify any improvements or modifications to improve the projects;

- To discuss if some projects should be approved sooner than others; and
- To identify timing and coordination issues with other DRP activities and CPUC proceedings including the Integrated Distributed Energy Resources (IDER) proceeding.

Welcome and safety protocol - Energy Division <ol style="list-style-type: none"> 1. Update on R.14-08-013 2. Objectives for Workshop & Agenda 	9:30 – 9:40 AM
<p style="text-align: center;"><u>PART I: DEMONSTRATION PROJECT C:</u> <u>DEMONSTRATE DER LOCATIONAL BENEFITS</u></p> <p>This project aims to validate the ability of DER to achieve net benefits consistent with the Locational Net Benefits Analysis.</p>	9:40 – 11:10 AM
<p>PG&E presenter: Mark Esguerra (Principal, Electric Strategy and Asset Management)</p> <p>PG&E aims to deploy this project in the Chico Distribution Planning Area (DPA) which serves approximately 125,000 electric customers. The project is estimated to cost \$1.75 million plus DER procurement costs.</p>	9:40 – 9:55 AM
<p>SCE presenter: Sergio Islas (Senior Project Manager, Preferred Resources Pilot)</p> <p>SCE has identified the new El Toro Marine base area residential development, in Orange County, as a suitable location for this project. Substantial load growth is expected due the planned residential development. The project is estimated to cost \$9.3 million plus DER procurement costs.</p>	9:55 – 10:10 AM
<p>SDG&E presenter: Neal Bartek, Distributed Energy Resources Manager</p> <p>SDG&E has identified one circuit connected to Mission substation (which serves the area of Mission Valley, Linda Vista, and Allied Gardens) and another circuit connected to Felicita substation (which serves the area of Escondido West & South) as candidates for this project. The circuit connected to Mission substation has 4,911 residential meters and 138 commercial meters. The circuit connected to Felicita substation has 850 residential meters and 190 commercial meters. The project is estimated to cost \$6.4 million</p>	10:10 – 10:25 AM

plus DER procurement costs.	
Q&A	10:25 – 11:10 AM
<i>BREAK</i>	<i>11:10 – 11:15 AM</i>
<p style="text-align: center;"><u>PART II: ADDITIONAL PROJECT: PROPOSED BY CENTER FOR SUSTAINABLE ENERGY</u></p> <p>Presenter: Stephanie Wang (Senior Manager, California Policy & Strategy)</p> <p>This Pilot proposal focuses on demonstrating how to integrate city and grid planning:</p> <ul style="list-style-type: none"> • How city planning for DERs can be informed by integration hosting capacity analyses; • How grid planning forecasts for load and DERs can be informed by city built environment plans; • How a city and a utility can work together to identify optimal locations for DERs from both grid and societal value perspectives; • How this information can inform city DER targets, and how city DER targets can be incorporated into DER growth scenarios; and • How to streamline data sharing. 	11:15 – 11:40 AM
<i>LUNCH (55 minutes)</i>	<i>11:40 AM – 12:35 PM</i>
<p style="text-align: center;"><u>PART III: DEMONSTRATION PROJECT D: DEMONSTRATE DISTRIBUTION OPERATIONS AT HIGH PENETRATION OF DERS.</u></p> <p>This project calls for the utilities to integrate high penetrations of DER into their distribution planning operations.</p>	12:35 – 2:05 PM
<p>PG&E presenter: Mark Esguerra (Principal, Electric Strategy and Asset Management)</p> <p>PG&E proposes to conduct this project in the Huron Substation, located within the Gates DPA. This area was selected due to its unique loading profile that is forecast to resemble the “duck curve.”</p>	12:35 – 12:50 PM

The estimated project cost is \$2.1 million plus DER procurement costs.	
<p>SCE presenter: Robert Sherick (Principal Manager, Advanced Technology)</p> <p>The proposed location for this demonstration is in the Camden and Johanna Jr substation areas which are located in an urban area of Orange County. These substations are in SCE's Preferred Resources Pilot Area. There are significant existing PV installations with potential for additional PV. It is also the location of resources to be deployed as part of SCE's ongoing energy storage demonstration project. Estimated cost for this project is \$23.65 million plus costs associated with DER procurement.</p>	12:50 – 1:05 PM
<p>SDG&E presenter: Neal Bartek, Distributed Energy Resources Manager</p> <p>The proposed location for this project is at the Valley Center substation which has a significant amount of DERs (12,070 kW of nameplate generation). The estimated cost for this project is \$9 million plus costs associated with DER procurement.</p>	1:05 – 1:20 PM
Q&A	1:20 – 2:05 PM
<i>BREAK</i>	<i>2:05 – 2:15 PM</i>
<p><u>PART IV: DEMONSTRATION PROJECT E:</u> <u>Demonstrate DER Dispatch to Meet Reliability Needs.</u></p> <p>The aim of this project is for the utilities to serve as a distribution system operator of a microgrid where DERs serve a significant portion of customer load and reliability services.</p>	2:15 – 4:00 PM
<p>PG&E presenter: Mark Esguerra (Principal, Electric Strategy and Asset Management)</p> <p>PG&E has identified Angel Island as a suitable candidate for this project. Developing a microgrid on Angel Island is an alternative to replacing the undersea cables which are the sole source of electric service to the island. The project is estimated to cost \$4.2 million plus DER procurement costs.</p>	2:15 – 2:35 PM

<p>SCE presenter: Robert Sherick (Principal Manager, Advanced Technology)</p> <p>This proposed project is to be located in Irvine, adjacent to the University of California, Irvine. The proposed location includes the area that hosted the Irvine Smart Grid Demonstration project. The project is estimated to cost \$10.2 plus DER procurement costs.</p>	2:35 – 2:55 PM
<p>SDG&E presenter: Neal Bartek, Distributed Energy Resources Manager</p> <p>The Borrego Springs area has been identified as the ideal location for this project. It is served by a single, radial transmission line that is subject to extreme weather. There are no other distribution substations nearby to provide power in case the line fails. The estimated project cost is \$0.5 million.</p>	2:55 – 3:15 PM
Q&A	3:15 – 4:00 PM
<i>BREAK</i>	<i>4:00 – 4:05 PM</i>
<p style="text-align: center;"><u>PART V: STAKEHOLDER PANEL</u></p> <p>Panelists:</p> <ul style="list-style-type: none"> - Jim Baak (Program Director, Grid Integration, Vote Solar) - Kenneth Sahm White (Director, Policy & Economic Analysis, Clean Coalition) - Kevin Joyce (Mgr. Grid Engineering Sol, SolarCity) - Tom Roberts (Senior Utilities Engineer, Energy Safety and Infrastructure Branch, ORA) - Zita Kline (Senior Analyst, Energy Safety and Infrastructure Branch, ORA) <p>The purpose of this panel is to engage stakeholder feedback on the proposed demonstration projects. There will be a general discussion on the merits and deficiencies, if any, of the proposed projects.</p>	4:05 – 5:00 PM
Wrap up	5:00 PM

Other Information:

For procedural details relating to the demonstration projects in the applications (A.15-07-002, A.15-07-003 and 15-07-006) and the Distribution Resources Plans Rulemaking (R.14-08-013) refer to:

- 1) The May 17, 2016, *Joint Assigned Commissioner and Administrative Law Judge's Ruling Regarding Track 2 Demonstration Projects* (<http://docs.cpuc.ca.gov/SearchRes.aspx?docformat=ALL&docid=162005263>); and
- 2) The February 6, 2016, *Assigned Commissioner's Ruling on Guidance for Public Utilities Code Section 769—Distribution Resource Planning* (<http://docs.cpuc.ca.gov/SearchRes.aspx?DocFormat=ALL&DocID=146374514>).

The contact person regarding this workshop is Jose Aliaga-Caro of the CPUC (jc5@cpuc.ca.gov or at 415-703-2338).